

ABSTRACT

Disclosed is a process for preparing a polymer. The process includes at least 5 one process stream and the process stream has at least one characteristic of interest. The process further includes passing the process stream past a sensor probe connected to a near-IR spectrophotometer and passing light from a light source through the probe and into the spectrometer wherein the light source, spectrometer and sensor probe are connected by a fiber optic 10 cable. The effect of the interaction of the process stream and the light passing through the sensor probe is measured and used to define a value for the characteristic of interest. The value for the characteristic of interest is a component of an algorithm and the algorithm is used, in real time, to monitor, control, or monitor and control the process for preparing a polymer.

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